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(21)Application number : **57-185407** (71)Applicant : **CANON INC**

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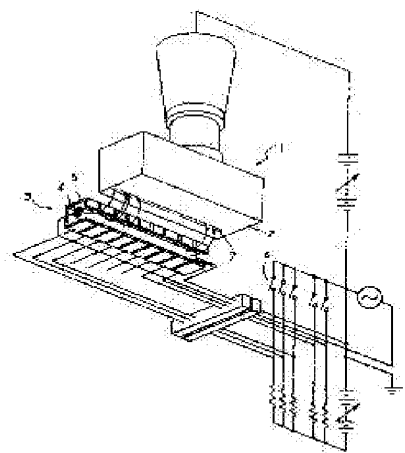
(54) **X-RAY BULB**

(57)Abstract:

PURPOSE: To obtain an elongated X-ray generating apparatus having the uniform strength by irradiating the different points in the longitudinal direction of the X-ray generating surface with the electron beam continuously or intermittently generated from an electron beam generator.

CONSTITUTION: An X-ray generator 1 is filled with a coolant and the X-ray generating surface 2 is formed by the anode made of a pure metal, semiconductor or alloy. The electron beam generator 3 has a filament 4 and a control grid 5, and the grid 5 focuses or deflects the electron beam released from the filament 4. The grid 5 is divided electrically into a plurality of segments along the direction of filament and a negative voltage is applied in parallel to each divided segment. A switch group 6 controls a negative voltage to be applied to the divided segments of grid 5. The X-ray generating surface is scanned by comparatively narrow electron beam. The X-ray generating part 7

like a line can be obtained by focusing the narrow beam. Meanwhile, the generating part 7 like a belt by focusing the thick beam and the generating part 7 like a broken line or broken belt by the intermittent irradiation of beam.



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